

FILEID**BASMARGIN

BBBBBBBB	AAAAAA	SSSSSS	MM	MM	AAAAAA	RRRRRRR	GGGGGGGG	IIIIII	NN	NN
BBBBBBBB	AAAAAA	SSSSSS	MM	MM	AAAAAA	RRRRRRR	GGGGGGGG	IIIIII	NN	NN
BB	BB	AA	AA	SS	MM	MM	AA	RR	RR	GG
BB	BB	AA	AA	SS	MM	MM	AA	RR	RR	GG
BB	BB	AA	AA	SS	MM	MM	AA	RR	RR	GG
BB	BB	AA	AA	SS	MM	MM	AA	RR	RR	GG
BBBBBBBB	AA	AA	SSSSS	MM	MM	AA	AA	RRRRRRR	GG	II
BBBBBBBB	AA	AA	SSSSS	MM	MM	AA	AA	RRRRRRR	GG	II
BB	BB	AAAAA	SS	MM	MM	AAAAA	RR	RR	GG	GGGGGG
BB	BB	AAAAA	SS	MM	MM	AAAAA	RR	RR	GG	GGGGGG
BB	BB	AA	AA	SS	MM	MM	AA	RR	RR	GG
BB	BB	AA	AA	SS	MM	MM	AA	RR	RR	GG
BBBBBBBB	AA	AA	SSSSS	MM	MM	AA	AA	RR	RR	GGGGGG
BBBBBBBB	AA	AA	SSSSS	MM	MM	AA	AA	RR	RR	GGGGGG

LL	IIIIII	SSSSSS
LL	IIIIII	SSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SSSSS
LL	II	SSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LLLLLLLLL	IIIIII	SSSSSS
LLLLLLLLL	IIIIII	SSSSSS

```
1 0001 0 MODULE BASSMARGIN (
2 0002 0           IDENT = '1-0013'
3 0003 0           ) =
4 0004 1 BEGIN
5
6 0006 1 *****
7 0007 1 *
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25
26 0026 1 *
27 0027 1 *****
28 0028 1 *
29 0029 1 *
30 0030 1 ++
31 0031 1 FACILITY: BASIC-PLUS-2 Miscellaneous I/O
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module contains the BASIC MARGIN function, which returns
36 0036 1 the margin of the file open on a channel. The margin setting
37 0037 1 can also be changed.
38 0038 1
39 0039 1 ENVIRONMENT: VAX-11 User Mode
40 0040 1
41 0041 1 AUTHOR: John Sauter, CREATION DATE: 08-MAY-1979
42 0042 1
43 0043 1 MODIFIED BY:
44 0044 1
45 0045 1 1-001 - Original.
46 0046 1 1-002 - Allow MAR% on channel 0 before it is open. JBS 23-MAY-1979
47 0047 1 1-003 - Make the margin 16 bits. JBS 30-MAY-1979
48 0048 1 1-004 - If the new margin is larger than the record size (on unit 0
49 0049 1 only) increase the record size. JBS 31-MAY-1979
50 0050 1 1-005 - Update RABSL_UBF and RABSW_USZ when increasing the record
51 0051 1 size. JBS 04-JUN-1979
52 0052 1 1-006 - Add BASSNOMARGIN. JBS 13-JUL-1979
53 0053 1 1-007 - Set up ISBSA_USER FP. JBS 25-JUL-1979
54 0054 1 1-008 - Correct a coding error in the call to LIB$FREE_VM.
55 0055 1 QAR N11-03250. JBS 29-NOV-1979
56 0056 1 1-009 - When relocating LUB fields, dont forget LUBSA_UBF. JBS 29-NOV-1979
57 0057 1 1-0010- BASSNOMARGIN needs to do a BASS$CB_POP before return. FM 9-FEB-81
```

: 58 0058 1 | 1-0011- MARGIN should operate only on terminal format files. PLL 12-May-81
: 59 0059 1 | 1-0012- NOMARGIN should also operate only on terminal format
: 60 0060 1 | files. PLL 05-JUN-81
: 61 0061 1 | 1-0013- LIB\$STOP should be declared EXTERNAL. PLL 20-Nov-81
: 62 0062 1 | --
: 63 0063 1 |
: 64 0064 1 !<BLF/PAGE>

```
66      0065 1 |  
67      0066 1 | SWITCHES:  
68      0067 1 |  
69      0068 1 |  
70      0069 1 | SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);  
71      0070 1 |  
72      0071 1 |  
73      0072 1 | LINKAGES:  
74      0073 1 |  
75      0074 1 |  
76      0075 1 | REQUIRE 'RTLIN:OTSLNK';           ! Define linkages  
77      0504 1 |  
78      0505 1 |  
79      0506 1 | TABLE OF CONTENTS:  
80      0507 1 |  
81      0508 1 |  
82      0509 1 | FORWARD ROUTINE  
83      0510 1 | BASSMARGIN,  
84      0511 1 | BASSNOMARGIN : NOVALUE;          ! Return right margin  
85      0512 1 |                                     ! Turn off right margin  
86      0513 1 |  
87      0514 1 | INCLUDE FILES:  
88      0515 1 |  
89      0516 1 |  
90      0517 1 | REQUIRE 'RTLML:OTSLUB';          ! Get LUB definitions  
91      0657 1 |  
92      0658 1 | REQUIRE 'RTLML:OTSISB';          ! Get ISB definitions  
93      0826 1 |  
94      0827 1 | REQUIRE 'RTLIN:RTLPSECT';        ! Macros for defining psects  
95      0922 1 |  
96      0923 1 | LIBRARY 'RTLSTARLE';          ! System symbols  
97      0924 1 |  
98      0925 1 |  
99      0926 1 | MACROS:  
100     0927 1 |  
101     0928 1 |     NONE  
102     0929 1 |  
103     0930 1 | EQUATED SYMBOLS:  
104     0931 1 |  
105     0932 1 |     NONE  
106     0933 1 |  
107     0934 1 | PSECTS:  
108     0935 1 |  
109     0936 1 | DECLARE_PSECTS (BAS);          ! Declare psects for BASS facility  
110     0937 1 |  
111     0938 1 | OWN STORAGE:  
112     0939 1 |  
113     0940 1 |     NONE  
114     0941 1 |  
115     0942 1 | EXTERNAL REFERENCES:  
116     0943 1 |  
117     0944 1 |  
118     0945 1 | EXTERNAL ROUTINE  
119     0946 1 |     LIB$STOP : NOVALUE.          ! Signal fatal error  
120     0947 1 |     LIB$FREE_VM.            ! Deallocate storage  
121     0948 1 |     LIB$GET_VM.              ! Allocate storage  
122     0949 1 |     BASS$CB_PUSH : JSB_CB_PUSH NOVALUE, ! Load register CCB
```

```
: 123      0950 1  BAS$$CB_POP : JSB_CB_POP NOVALUE,          ! Done with register CCB
: 124      0951 1  BAS$$STOP_IO : NOVALUE,                  ! Signal fatal I/O error
: 125      0952 1  BAS$$STOP : NOVALUE,                   ! Signal fatal error
: 126      0953 1  BAS$$OPEN_ZERO : CALL_CCB NOVALUE;     ! Open channel zero.
: 127      0954 1
: 128      0955 1  !+ The following are the error codes used in this module.
: 129      0956 1  !-
: 130      0957 1
: 131      0958 1
: 132      0959 1  EXTERNAL LITERAL
: 133      0960 1  BASSK_ILLIO_CHA : UNSIGNED (8),        ! Illegal I/O channel
: 134      0961 1  BASSK_IO_CHANOT : UNSIGNED (8),       ! I/O Channel not open
: 135      0962 1  BASSK_ILCOPE : UNSIGNED (8),        ! Illegal operation
: 136      0963 1  BASSK_MAXMEMEXC : UNSIGNED (8),     ! Maximum memory exceeded
: 137      0964 1  OTSS_FATINTERR;                      ! Fatal internal error
: 138      0965 1
```

```
140      0966 1 GLOBAL ROUTINE BASS$MARGIN (           ! Return right margin
141          1     CHAN,                                ! Channel whose margin to return
142          1     NEW_MARGIN                         ! Optional new setting
143          1   ) =
144
145      0971 1 ++
146      0972 1 FUNCTIONAL DESCRIPTION:
147      0973 1
148          1 Returns the right margin of the specified channel. Optionally,
149          1 a new right margin can be specified. If the right margin of the
150          1 user's terminal (channel 0) is being extended, this routine will
151          1 reallocate the channel buffer if necessary so that there is
152          1 enough room for a line out to the margin.
153
154      0980 1 FORMAL PARAMETERS:
155
156      0982 1     CHAN.rl.v    The channel whose margin to return.
157      0983 1     NEW_MARGIN.rl.v  Optionally, the new right margin. 0 means
158          1             return to default.
159
160      0986 1 IMPLICIT INPUTS:
161
162      0988 1     LUBSW_R_MARGIN  The channel's current right margin
163      0989 1     LUBSW_D_MARGIN  The channel's default right margin
164      0990 1     LUBSW_RBUF_SIZE The length of the record buffer.
165
166      0992 1 IMPLICIT OUTPUTS:
167
168      0994 1     LUBSW_R_MARGIN  The channel's current right margin
169      0995 1     LUBSW_RBUF_SIZE The length of the record buffer
170      0996 1     LUB$A_UBF       The address of the record buffer
171      0997 1     Various other fields in the LUB and RAB that point into the
172          1             record buffer, which get relocated.
173
174      1000 1 ROUTINE VALUE:
175
176      1002 1     The right margin of the channel, before any changes made
177      1003 1             by this routine.
178
179      1005 1 SIDE EFFECTS:
180
181      1007 1     May change the right margin of this channel.
182      1008 1     If channel 0 is not open, opens it.
183      1009 1     BAS$SCB_PUSH will signal if the channel number is invalid.
184      1010 1     If it must expand the channel buffer, will disable ASTs while
185          1             doing so, and relocate some LUB and RAB fields.
186
187      1013 1 --
188
189      1014 1 BEGIN
190      1016 2 BUILTIN
191      1017 2     FP;
192
193      1019 2 GLOBAL REGISTER
194          1     CCB = K_CCB_REG : REF BLOCK [, BYTE];
195
196      1022 2
```

```
197      1023  2    BUILTIN
198      1024  2    ACTUALCOUNT;
199      1025  2
200      1026  2    LOCAL
201      1027  2      FMP : REF BLOCK [, BYTE],
202      1028  2      RIGHT_MARGIN,
203      1029  2      LOG_UNIT;
204      1030  2
205      1031  2      FMP = .FP;
206      1032  2
207      1033  2      |+ Get the LUB for the channel. Signal if the channel number is invalid.
208      1034  2      |- LOG_UNIT =
209      1035  2      BEGIN
210      1036  3
211      1037  3
212      1038  4      IF (.CHAN GTR 0)
213      1039  3      THEN
214      1040  3          .CHAN
215      1041  3      ELSE
216      1042  3
217      1043  4          IF (.CHAN EQL 0)
218      1044  3          THEN
219      1045  3              LUBSK_LUN_BPRI
220      1046  3          ELSE
221      1047  4              BEGIN
222      1048  4                  BASS$STOP (BASSK_ILLIO_CHA);
223      1049  4                  0
224      1050  4              END
225      1051  4
226      1052  2
227      1053  2      END;
228      1054  2      CCB [ISBSA_USER_FP] = .FMP [SFSL_SAVE_FP];
229      1055  2
230      1056  2      |+ If the channel is zero and not open, open it.
231      1057  2      |- IF (.CHAN EQL 0)
232      1058  2
233      1059  3          THEN
234      1060  2              BEGIN
235      1061  3
236      1062  3
237      1063  3          IF ( NOT .CCB [LUB$V_OPENED]) THEN BASS$OPEN_ZERO (.FMP [SFSL_SAVE_FP]);
238      1064  3
239      1065  2
240      1066  2
241      1067  2
242      1068  2      |+ If the channel is not now open, we have an error.
243      1069  2      |- IF ( NOT .CCB [LUB$V_OPENED]) THEN BASS$STOP_IO (BASSK_IO_CHANOT);
244      1070  2
245      1071  2
246      1072  2
247      1073  2
248      1074  2      |+ If this is anything but a terminal format file, the MARGIN state-
249      1075  2      |ment is unreasonable.
250      1076  2
251      1077  2
252      1078  2      IF (.CCB [LUB$B_ORGAN] NEQ LUBSK_ORG_TERM) THEN BASS$STOP_IO (BASSK_ILOPPE);
253      1079  2
```

```
: 254      1080 2  + Fetch the current margin, so we can return it.
: 255      1081 2  -
: 256      1082 2  - RIGHT_MARGIN = .CCB [LUB$W_R_MARGIN];
: 257      1083 2  +
: 258      1084 2  - If a new margin is specified, change to it. If the new margin is
: 259      1085 2  zero, change instead to the default margin.
: 260      1086 2  -
: 261      1087 2
: 262      1088 2
: 263      1089 3  + IF (ACTUALCOUNT () GEQ 2)
: 264      1090 2  THEN
: 265      1091 3  BEGIN
: 266      1092 3  CCB [LUB$W_R_MARGIN] =
: 267      1093 4  BEGIN
: 268      1094 4
: 269      1095 4  IF (.NEW_MARGIN EQL 0) THEN .CCB [LUB$W_D_MARGIN] ELSE .NEW_MARGIN
: 270      1096 4
: 271      1097 3  END:
: 272      1098 3  +
: 273      1099 3  - If the margin is larger than the buffer, and this is channel 0
: 274      1100 3  (which means the user has no control over the size of the buffer
: 275      1101 3  since he cannot open channel 0 himself), increase the buffer
: 276      1102 3  size to match the new margin.
: 277      1103 3  -
: 278      1104 3
: 279      1105 5  IF ((.CCB [LUB$W_R_MARGIN] GTR .CCB [LUB$W_RBUF_SIZE]) AND .CCB [LUB$V_UNIT_0] AND ( NOT .CCB [
: 280      1106 4  LUB$V_USER_RBUF)))
: 281      1107 3  THEN
: 282      1108 4  BEGIN
: 283      1109 4
: 284      1110 4  LOCAL
: 285      1111 4  NEW_BUFFER,
: 286      1112 4  GET_VM_STATUS,
: 287      1113 4  FREE_VM_STATUS,
: 288      1114 4  AST_STATUS,
: 289      1115 4  OLD_BUFFER,
: 290      1116 4  OLD_SIZE,
: 291      1117 4  NEW_SIZE;
: 292      1118 4
: 293      1119 4  +
: 294      1120 4  - We must be sure that an AST does not fool with the buffer as we
: 295      1121 4  are reallocating it.
: 296      1122 4  -
: 297      1123 4  AST_STATUS = $SETAST (ENBFLG = 0);
: 298      1124 4  +
: 299      1125 4  - Allocate a new buffer.
: 300      1126 4  -
: 301      1127 4  NEW_SIZE = MAX (.CCB [LUB$W_RBUF_SIZE], .CCB [LUB$W_D_MARGIN], .CCB [LUB$W_R_MARGIN]);
: 302      1128 4  GET_VM_STATUS = LIB$GET_VM (NEW_SIZE, NEW_BUFFER);
: 303      1129 4
: 304      1130 4  IF ( NOT .GET_VM_STATUS) THEN BASSSTOP_IO (BASSK_MAXMEMEXC);
: 305      1131 4
: 306      1132 4  +
: 307      1133 4  - Remember the old buffer address and length for later.
: 308      1134 4  -
: 309      1135 4  OLD_BUFFER = .CCB [LUB$A_UBF];
: 310      1136 4  OLD_SIZE = .CCB [LUB$W_RBUF_SIZE];
```

```
311      1137 4  + Point the LUB to the new buffer.  
312      1138 4  -  
313      1139 4  CCB [LUB$A_UBF] = .NEW_BUFFER;  
314      1140 4  CCB [LUB$W_RBUF_SIZE] = .NEW_SIZE;  
315      1141 4  CCB [RAB$W_USZ] = .NEW_SIZE;  
316      1142 4  +  
317      1143 4  - Now relocate all of the LUB fields that point into the buffer.  
318      1144 4  CCB [LUB$A_RBUF_ADR] = .CCB [LUB$A_RBUF_ADR] - .OLD_BUFFER + .NEW_BUFFER;  
319      1145 4  CCB [LUB$A_BUF_PTR] = .CCB [LUB$A_BUF_PTR] - .OLD_BUFFER + .NEW_BUFFER;  
320      1146 4  CCB [LUB$A_BUF-END] = .CCB [LUB$A_BUF-END] - .OLD_BUFFER + .NEW_BUFFER;  
321      1147 4  CCB [LUB$A_BUF-BEG] = .CCB [LUB$A_BUF-BEG] - .OLD_BUFFER + .NEW_BUFFER;  
322      1148 4  CCB [LUB$A_BUF-HIGH] = .CCB [LUB$A_BUF-HIGH] - .OLD_BUFFER + .NEW_BUFFER;  
323      1149 4  CCB [RAB$L_UBF] = .CCB [RAB$L_UBF] - .OLD_BUFFER + .NEW_BUFFER;  
324      1150 4  +  
325      1151 4  Copy the data from the old buffer to the new.  
326      1152 4  -  
327      1153 4  CH$COPY (.OLD_SIZE, .OLD_BUFFER, 0, .NEW_SIZE, .NEW_BUFFER);  
328      1154 4  +  
329      1155 4  Now that the CCB is updated, we can turn ASTs back on.  
330      1156 4  -  
331      1157 4  +  
332      1158 4  IF (.AST_STATUS EQ SSS_WASSET) THEN $SETAST (ENBFLG = 1);  
333      1159 4  -  
334      1160 4  +  
335      1161 4  Free the old buffer.  
336      1162 4  -  
337      1163 4  FREE_VM_STATUS = LIB$FREE_VM (OLD_SIZE, OLD_BUFFER);  
338      1164 4  -  
339      1165 4  IF (NOT .FREE_VM_STATUS) THEN LIB$STOP (OTSS_FATINTERR);  
340      1166 4  -  
341      1167 4  +  
342      1168 4  END;  
343      1169 3  -  
344      1170 3  +  
345      1171 3  Since we now have a right margin, make sure the NOMARGIN bit  
346      1172 3  is clear.  
347      1173 3  -  
348      1174 3  +  
349      1175 3  CCB [LUB$V_NOMARGIN] = 0;  
350      1176 2  END;  
351      1177 2  -  
352      1178 2  +  
353      1179 2  We are done with register CCB.  
354      1180 2  -  
355      1181 2  +  
356      1182 2  BAS$$CB_POP ();  
357      1183 2  +  
358      1184 2  Return the previous (or unchanged) right margin.  
359      1185 2  +  
360      1186 1  RETURN (.RIGHT_MARGIN);  
                  ! end of BASSMARGIN
```

```
.TITLE BASSMARGIN  
.IDENT \1-0013\  
.EXTRN LIB$STOP, LIB$FREE_VM  
.EXTRN LIB$GET_VM, BAS$$CB_PUSH
```

			.EXTRN	BASS\$CB_POP, BASS\$STOP_10		
			.EXTRN	BASS\$STOP, BASS\$OPEN_ZERO		
			.EXTRN	BASSK_ILLIO_CHA		
			.EXTRN	BASSK_IO_CHANOT		
			.EXTRN	BASSK_IL[OPE, BASSK_MAXMEMEXC		
			.EXTRN	OTSS_FATINTERR, SYSSSETAST		
			.PSECT	_BASS\$CODE,NOWRT, SHR, PIC,2		
		OBFC 00000	.ENTRY	BASSMARGIN, Save R2,R3,R4,R5,R6,R7,R8,R9,-	: 0966	
				R11		
59	00000000G	00 9E 00002	MOVAB	SYSSSETAST, R9		
58	00000000G	00 9E 00009	MOVAB	BASS\$STOP_10, R8		
5E		10 C2 00010	SUBL2	#16, SP		
53		5D D0 00013	MOVL	FP, FMP	: 1031	
54	04	AC D0 00016	MOVL	CHAN, R4	: 1038	
		05 15 0001A	BLEQ	1S		
52		54 D0 0001C	MOVL	R4, LOG_UNIT		
		14 11 0001F	BRB	3S		
		05 12 00021	BNEQ	2S		
52		08 CE 00023	MNEGL	#8, LOG_UNIT		
		0D 11 00026	BRB	3S		
7E	00	8F 9A 00028	2S:	MOVZBL #BASSK_ILLIO_CHA, -(SP)	: 1048	
		01 FB 0002C	CALLS	#1, BASS\$STOP		
		52 D4 00033	CLRL	LOG_UNIT		
50		08 CE 00035	3S:	MNEGL #8, R0		
		00 16 00038	JSB	BASS\$CB_PUSH		
FF4C	CB	00000000G 0C	A3 D0 0003E	MOVL	12(FMP), -180(CCB)	
		54 D5 00044	TSTL	R4		
		0E 12 00046	BNEQ	4S		
15		FC AB E8 00048	BLBS	-4(CCB), 5S		
		0C A3 DD 0004C	PUSHL	12(FMP)		
00000000G	00	01 FB 0004F	CALLS	#1, BASS\$OPEN_ZERO		
07		FC AB E8 00056	4S:	BLBS -4(CCB), 5S		
7E	00G	8F 9A 0005A	MOVZBL	#BASSK_IO_CHANOT, -(SP)		
68		01 FB 0005E	CALLS	#1, BASS\$STOP_10		
04		C4 AB 91 00061	5S:	CMPB -60(CCB), #4		
		07 13 00065	BEQL	6S		
7E	00G	8F 9A 00067	MOVZBL	#BASSK_ILOPE, -(SP)		
68		01 FB 0006B	CALLS	#1, BASS\$STOP_10		
57	D4	AB 3C 0006E	6S:	MOVZWL -44(CCB), RIGHT_MARGIN		
02		6C 91 00072	CMPB	(AP), #2		
		03 1E 00075	BGEQU	7S		
		00EF 31 00077	BRW	17S		
		08 AC D5 0007A	7S:	TSTL NEW_MARGIN		
		06 12 0007D	BNEQ	8S		
50	D6	AB 3C 0007F	MOVZWL	-42(CCB), R0		
		04 11 00083	BRB	9S		
D4	50 AB	08 AC D0 00085	8S:	MOVL NEW_MARGIN, R0		
D2	AB	50 B0 00089	9S:	MOVW R0, -44(CCB)		
		D4 AB B1 0008D	CMPW	-44(CCB), -46(CCB)		
		03 1A 00092	BGTRU	11S		
		FE 00CE 31 00094	10S:	BRW 16S		
		F8 18 0009A	TSTB	-2(CCB)		
		FF AB 95 0009C	BGEQ	10S		
		F3 19 0009F	TSTB	-1(CCB)		
			BLSS	10S	: 1106	

			69	7E	D4	000A1	CLRL	-(SP)	: 1123	
			56	01	FB	000A3	CALLS	#1, SYSSSETAST		
			50	50	DD	000A6	MOVL	R0, AST STATUS		
			50	D2	AB	3C 000A9	MOVZWL	-46(CCB), R0		
			50	D6	AB	B1 000AD	CMPW	-42(CCB), R0		
			50	04	1B	000B1	BLEQU	12\$		
			50	D6	AB	3C 000B3	MOVZWL	-42(CCB), R0		
			50	D4	AB	B1 000B7	12\$:	CMPW	-44(CCB), R0	
			04	04	1B	000BB	BLEQU	13\$		
			04	AE	AB	3C 000BD	MOVZWL	-44(CCB), R0		
			04		50	DD 000C1	13\$:	MOVL	R0, NEW_SIZE	
					SE	000C5	PUSHL	SP		
			00000000G	00	08	AE 9F 000C7	PUSHAB	NEW_SIZE		
					02	FB 000CA	CALLS	#2, LIB\$GET VM		
					50	E8 000D1	BLBS	GEI VM_STATUS, 14\$		
					7E	8F 9A 000D4	MOVZBL	#BASSK-MAXMEMEXC, -(SP)		
					00G	01 FB 000D8	CALLS	#1, BASS\$STOP IO		
					08	AB 000DB	14\$:	MOVL	-100(CCB), OLD_BUFFER	
					OC	AB 3C 000E0	MOVZWL	-46(CCB), OLD_SIZE		
					68	6E DD 000E5	MOVL	NEW_BUFFER, RT		
					9C	51 DO 000E8	MOVL	R1, -100(CCB)		
					D2	AB 51 000EC	MOVW	NEW_SIZE, -46(CCB)		
					20	AB 51 000F1	MOVW	NEW_SIZE, 32(CCB)		
					50	AE 50 000F6	MOVL	OLD_BUFFER, R0		
					EC	AB 50 C3 000FA	SUBL3	R0, -20(CCB), R2		
					AB	52 51 C1 000FF	ADDL3	R1, R2, -20(CCB)		
					B0	AB 52 50 C3 00104	SUBL3	R0, -80(CCB), R2		
					B4	AB 52 51 C1 00109	ADDL3	R1, R2, -80(CCB)		
					BC	AB 52 50 C3 0010E	SUBL3	R0, -76(CCB), R2		
					BC	BC 52 51 C1 00113	ADDL3	R1, R2, -76(CCB)		
					CO	AB 52 50 C3 00118	SUBL3	R0, -68(CCB), R2		
					CO	AB 52 51 C1 0011D	ADDL3	R1, R2, -68(CCB)		
					24	AB 52 50 C3 00122	SUBL3	R0, -64(CCB), R2		
						52 51 C1 00127	ADDL3	R1, R2, -64(CCB)		
						24 AB 52 50 C3 0012C	SUBL3	R0, 36(CCB), R2		
						52 51 C1 00131	ADDL3	R1, R2, 36(CCB)		
						00 60 AE 2C 00136	MOVC5	OLD_SIZE, (R0), #0, NEW_SIZE, (R1)		
						61 09 56 D1 0013D	CMPL	AST_STATUS, #9		
						05 09 05 12 00141	BNEQ	15\$		
						01 09 01 DD 00143	PUSHL	#1		
						69 08 01 FB 00145	CALLS	#1, SYSSSETAST		
						10 00 02 FB 00148	15\$:	PUSHAB	OLD_BUFFER	
						00 00 00 00G 00 02 FB 0014E	PUSHAB	OLD_SIZE		
						00 00 00 00G 00 50 E8 00155	CALLS	#2, LIB\$FREE VM		
						00 00 00 00G 00 8F DD 00158	BLBS	FREE VM_STATUS, 16\$		
						A1 AB 00 01 FB 0015E	PUSHL	#OTSS FATTINTER		
						50 00 02 8A 00165	CALLS	#1, LIB\$STOP		
						00 00 00 00G 00 16 00169	BICB2	#2, -95(CCB)		
						00 00 00 00G 00 57 DO 0016F	JSB	BASS\$CB_POP		
						04 00172	MOVL	RIGHT_MARGIN, R0		
							RET			

; Routine Size: 371 bytes, Routine Base: _BASS\$CODE + 0000

; 361 1187 1

```
363      1188 1 GLOBAL ROUTINE BASSNOMARGIN (
364          1189 1     CHAN
365          1190 1 ) : NOVALUE =
366          1191 1
367          1192 1 ++
368          1193 1 // FUNCTIONAL DESCRIPTION:
369          1194 1
370          1195 1     Disable the right margin feature of a channel.
371          1196 1
372          1197 1 // FORMAL PARAMETERS:
373          1198 1
374          1199 1     CHAN.rl.v      The channel whose margin to disable.
375          1200 1
376          1201 1 // IMPLICIT INPUTS:
377          1202 1
378          1203 1     NONE
379          1204 1
380          1205 1 // IMPLICIT OUTPUTS:
381          1206 1
382          1207 1     LUB$V_NOMARGIN Set to 1. This causes the formatting
383          1208 1     routines to not enforce any right
384          1209 1     margin.
385          1210 1
386          1211 1 // ROUTINE VALUE:
387          1212 1 // COMPLETION CODES:
388          1213 1
389          1214 1     NONE
390          1215 1
391          1216 1 // SIDE EFFECTS:
392          1217 1
393          1218 1     If channel 0 is not open, opens it.
394          1219 1     BAS$SCB_PUSH will signal if the channel number is invalid.
395          1220 1
396          1221 1
397          1222 1
398          1223 2 // --
399          1224 2     BEGIN
400          1225 2     BUILTIN
401          1226 2         FP;
402          1227 2
403          1228 2     GLOBAL REGISTER
404          1229 2         CCB = K_CCB_REG : REF BLOCK [, BYTE];
405          1230 2
406          1231 2     LOCAL
407          1232 2         FMP : REF BLOCK [, BYTE],
408          1233 2         LOG_UNIT;
409          1234 2
410          1235 2     FMP = .FP;
411          1236 2
412          1237 2 // +
413          1238 2     Get the LUB for the channel. Signal if the channel number is invalid.
414          1239 2 // -
415          1240 3     LOG_UNIT =
416          1241 3     BEGIN
417          1242 4     IF (.CHAN GTR 0)
418          1243 3     THEN
419          1244 3         .CHAN
```

```
: 420      1245 3    ELSE
: 421      1246 3
: 422      1247 4      IF (.CHAN EQ 0)
: 423      1248 3      THEN LUB$K_LUN_BPRI
: 424      1249 3
: 425      1250 3      ELSE BEGIN
: 426      1251 4          BASS$STOP (BASSK_ILLIO_CHA);
: 427      1252 4          0
: 428      1253 4      END
: 429      1254 4
: 430      1255 4
: 431      1256 2
: 432      1257 2      END;
: 433      1258 2      BAS$SCB PUSH (.LOG_UNIT, LUB$K_LUN_BPRI);
: 434      1259 2      CCB [ISBSA_USER_FP] = .FMP [SF$L_SAVE_FP];
: 435      1260 2      + If the channel is zero and not open, open it.
: 436      1261 2      - IF (.CHAN EQ 0)
: 437      1262 2          THEN BEGIN
: 438      1263 3              IF (.NOT .CCB [LUB$V_OPENED]) THEN BASSOPEN_ZERO (.FMP [SF$L_SAVE_FP]);
: 439      1264 2          END;
: 440      1265 3
: 441      1266 3
: 442      1267 3
: 443      1268 3
: 444      1269 2
: 445      1270 2
: 446      1271 2
: 447      1272 2      + If the channel is not now open, we have an error.
: 448      1273 2      - IF (.NOT .CCB [LUB$V_OPENED]) THEN BASS$STOP_IO (BASSK_IO_CHANOT);
: 449      1274 2
: 450      1275 2
: 451      1276 2
: 452      1277 2      + If this is anything but a terminal format file, the NOMARGIN statement is unreasonable.
: 453      1278 2      - IF (.CCB [LUB$B_ORGAN] NEQ LUB$K_ORG_TERM) THEN BASS$STOP_IO (BASSK_ILOPE);
: 454      1279 2
: 455      1280 2
: 456      1281 2
: 457      1282 2
: 458      1283 2      + Set the NOMARGIN bit, so the margin will not be enforced.
: 459      1284 2      - CCB [LUB$V_NOMARGIN] = 1;
: 460      1285 2
: 461      1286 2
: 462      1287 2      + Set the margin cell to 0, so the margin function will
: 463      1288 2          return a zero.
: 464      1289 2      - CCB [LUB$W_R_MARGIN] = 0;
: 465      1290 2
: 466      1291 2
: 467      1292 2
: 468      1293 2      + Pop the channel information.
: 469      1294 2      - BASS$CB_POP ();
: 470      1295 2      RETURN;
: 471      1296 2
: 472      1297 1      END;
```

! end of BASSNOMARGIN

				.ENTRY	BASS\$NOMARGIN, Save R2,R3,R4,R5,R11	: 1188
55	00000000G	00	083C 00000	MOVAB	BASS\$\$STOP_10, R5	: 1235
53		SD	9E 00002	MOVL	FP, FMP	: 1242
54	04	AC	D0 00009	MOVL	CHAN, R4	: 1244
		05	15 00010	BLEQ	1\$: 1247
52		54	D0 00012	MOVL	R4, LOG_UNIT	: 1247
		14	11 00015	BRB	3\$: 1252
52		05	12 00017	1\$: BNEQ	2\$: 1257
		08	CE 00019	MNEGL	#8, LOG_UNIT	: 1258
		0D	11 0001C	BRB	3\$: 1263
00000000G	7E	00G	8F 9A 0001E	2\$: MOVZBL	#BASSK_IILLIOCHA, -(SP)	: 1267
	00	01	FB 00022	CALLS	#1, BASS\$\$STOP	: 1275
		52	D4 00029	CLRL	LOG_UNIT	: 1275
	50	08	CE 0002B	3\$: MNEGL	#8, R0	: 1281
FF4C	CB	00000000G	00	JSB	BASS\$CB_PUSH	: 1286
		OC	A3 D0 00034	MOVL	12(FMP), -180(CCB)	: 1291
			54 D5 0003A	TSTL	R4	: 1295
			0E 12 0003C	BNEQ	4\$: 1297
	15	FC	AB E8 0003E	BLBS	-4(CCB), 5\$: 1298
		OC	A3 DD 00042	PUSHL	12(FMP)	: 1299
00000000G	00	01	FB 00045	CALLS	#1, BASS\$OPEN_ZERO	: 1300
	07	FC	AB E8 0004C	4\$: BLBS	-4(CCB), 5\$: 1301
	7E	00G	8F 9A 00050	MOVZBL	#BASSK_IOLCHANOT, -(SP)	
	65	01	FB 00054	CALLS	#1, BASS\$\$STOP_10	
	04	C4	AB 91 00057	5\$: CMPB	-60(CCB), #4	
		07	13 0005B	BEQL	6\$	
	7E	00G	8F 9A 0005D	MOVZBL	#BASSK_ILOPE, -(SP)	
	5	01	FB 00061	CALLS	#1, BASS\$\$STOP_10	
A1	AB	02	88 00064	6\$: BISB2	#2, -95(CCB)	
		D4	AB 94 00068	CLRW	-44(CCB)	
		00000000G	00	JSB	BASS\$CB_POP	
			04 00071	RET		

; Routine Size: 114 bytes, Routine Base: _BASS\$CODE + 0173

```

: 473      1298 1
: 474      1299 1 END
: 475      1300 1
: 476      1301 0 ELUDOM

```

! end of module BASSMARGIN

PSECT SUMMARY

Name	Bytes	Attributes
_BASS\$CODE	485	NOVEC,NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

BAS\$MARGIN
1-0013

L 14
16-Sep-1984 00:42:55 VAX-11 Bliss-32 v4.0-742
14-Sep-1984 11:55:14 [BASRTL.SRC]BASMARGIN.B32;1

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(4)

File	Total	Symbols Loaded	Symbols Percent	Pages Mapped	Processing Time
_S255\$DUA28:[SYSLIB]STARLET.L32;1	9776	7	0	581	00:01.2

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LISS:BASMARGIN/OBJ=OBJ\$:\$BASMARGIN MSRC\$:\$BASMARGIN/UPDATE=(ENH\$:\$BASMARGIN
:
: Size: 485 code + 0 data bytes
: Run Time: 00:15.7
: Elapsed Time: 00:35.7
: Lines/CPU Min: 4971
: Lexemes/CPU-Min: 32044
: Memory Used: 192 pages
: Compilation Complete

0024 AH-BT13A-SE
VAX/VMS V4.0

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BASLEFT
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BASMARGIN
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BASINITOL
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BASKILL
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BASMATAD
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BASTOBEG
LIS

BASIDEND
LIS

BASMAGAP
LIS